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and crystallization, which can first be used to advantage in explaining the formations around hot springs and geysers.

The attempt to make the children thoroughly familiar with the chemical characteristics of substances is good, as it secures a sure foundation for more advanced chemistry. One of the chief reasons that chemistry is a difficult subject for many students is due to the fact that the materials used are unfamiliar. It is almost impossible to reason in a science of which the alphabet, so to speak, is unknown. What meaning, for instance, is conveyed to the average mind by the words "sodium hydroxide." The student, however, who has once made the substance out of entirely familiar materials and known its characteristics from childhood, is in a position to use the compound intelligently. The advanced student has no time for these preliminary steps, steps necessary, however, to a thorough knowledge of the science.

The book, with its suggestiveness, can be highly recommended to all teachers of science to children.

M. Draege.

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4 IV.

$C_4H_{11}N_2IS$. Methylpseudoethylthiourea hydriodide. *Johnson* and *Heyl*..... 632

C_5-GROUP.

3 V.

$C_5H_4O_4N_2$. Uracil-5-carboxylic acid. *Wheeler, Johnson* and *Johns*..... 399

$C_5H_5O_4N_3$. 1-Methyl-5-nitro-6-oxypyrimidine. *Johnson* and *Heyl* 634
$C_5H_6O_2N_2$. 1-Methyluracil. *Johnson* and *Heyl* 633

4 V.

$C_5H_5O_2N_2Br$. 1-Methyl-2,6-dioxy-5-brompyrimidine. *Johnson* and *Heyl* 634

C_6-GROUP.

3 VI.

$C_6HO_3Cl_5$. Pentachlordiketotetrahydrobenzene. *Jackson* and *MacLaurin* 19
$C_6H_6O_4N_2$. Methyl uracil-5-carboxylate. *Wheeler*, *Johnson* and *Johns* 401
$C_6H_8O_2N_2$. 1,4-Dimethyl-2,6-dioxypyrimidine. *Johnson* and *Heyl* 635
$C_6H_8O_2N_2$. 1-Ethyl-2,6-dioxypyrimidine (ethyl uracil). *Johnson* and *Heyl* 635

4 VI.

$C_6H_8O_2N_2S$. 2-Methylmercapto-5-carboxyl-6-oxypyrimidine. *Wheeler*, *Johnson* and *Johns* 405
$C_6H_8O_3N_2S$. *p*-Hydrazinobenzenesulphonic acid. *Acree* 363

C_7-GROUP.

3 VII.

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4 VII.

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$C_7H_9O_2N_2Br$. *o*-Hydrazinobenzoic acid hydrobromide. *Acree* 367
$C_7H_9O_4N_2S$. α-Semicarbazido-*p*-benzenesulphonic acid. *Acree* 363

C_8-GROUP.

3 VIII.

$C_8H_9O_3N_3$. α-Semicarbazido-*o*-benzoic acid. *Acree* 367

C_9-GROUP.

3 IX.

$C_9H_{14}O_5N_2$. Uramidomethylenemalonic ester. *Wheeler, Johnson and Johns* 397

4 IX.

$C_9H_{12}O_3N_2S$. 2 - Ethylmercapto-5-carbethoxy - 6 - oxypyrimidine. *Wheeler, Johnson* and *Johns* 396

C_{11}-GROUP.

3 XI.

$C_{11}H_{11}O_4Na$. Sodium salt of ethyl α-phenoxy-β-oxyacrylate. *Johnson* and *Heyl* 636

C_{12}-GROUP.

$C_{12}O_4Cl_6$. Hexachlor-*o*-quinopyrocatechin ether. *Jackson* and *MacLaurin* 12

3 XII.

$C_{12}H_6O_4Cl_6$. Hexachlor-*o*-dihydroxypyrocatechin ether. *Jackson* and *MacLaurin* 13

4 XII.

$C_{12}H_{11}O_2NS$. Phenylsulphone-*o*-aminophenol. *Tingle* and *Williams* 53, 62
$C_{12}H_{11}O_2NS$. Phenylsulphone-*p*-aminophenol. *Tingle* and *Williams* 56, 69
$C_{12}H_{12}O_3N_2S$. 2 - Ethylmercapto - 5 - phenoxy - 6 - oxypyrimidine. *Johnson* and *Heyl* 637

C_{13}-GROUP.

3 XIII.

$C_{13}H_{10}O_4N_2$. *m*- and *p*-Nitrobenzoyl-*p*-aminophenol. *Tingle* and *Williams* 52, 55, 67

C_{14}-GROUP.

$C_{14}H_{18}O$. Phenyldimethylcyclohexenol. *Kohler* 381

4 XIV.

$C_{14}H_{11}ON_3S$. δ-Phenylthiosemicarbazido-α-*o*-benzoic anhydride. *Acree*..... 368

5 XIV.

$C_{14}H_{12}O_2N_3SK$. Potassium δ-phenylthiosemicarbazido-α-*o*-benzoate. *Acree*..... 368

C_{15}-GROUP.

3 XV.

$C_{15}H_{13}O_3N$. Acetylbenzoyl-*p*-aminophenol. *Tingle* and *Williams* 66

C_{17}-GROUP.

$C_{17}H_{16}O_3$. β-Phenyl-γ-benzoylbutyric acid. *Kohler*..... 389

3 XVII.

$C_{17}H_{18}O_3N_2$. Hydrazone of ethyl formylphenoxyacetate. *Johnson* and *Heyl*..... 636

C_{18}-GROUP.

$C_{18}H_{16}O$. Diphenylketocyclohexenone. *Kohler*..... 386
$C_{18}H_{18}O_3$. Methyl ester of β-Phenyl-γ-benzoylbutyric acid. *Kohler*..... 390

4 XVIII.

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$C_{18}H_{15}O_3NS_2$. Diphenylsulphone-*o*-aminophenol. *Tingle* and *Williams*..... 53, 62

C_{20}-GROUP.

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$C_{20}H_{22}O$. Ethyldiphenylcyclohexanone. *Kohler*..... 390
$C_{20}H_{22}O_2$. Ethyldiphenylcyclohexenol peroxide. *Kohler*..... 391

3 XX.

$C_{20}H_{12}O_7N_2$. Di-*m*- and *p*-nitrobenzoyl-*o*-aminophenol. *Tingle* and *Williams*..... 52, 61
$C_{20}H_{12}O_7N_2$. Di-*m*- and *p*-nitrobenzoyl-*p*-aminophenol. *Tingle* and *Williams*..... 55, 68, 69

$C_{20}H_{15}O_2N$. Dibenzoyl-*o*-aminophenol. *Tingle* and *Williams*..... 52, 59

4 XX.

$C_{20}H_{18}O_4N_2Cl_2$. Ethyl alcohol dianilinodichlor-*o*-benzoquinone. *Jackson* and *MacLaurin*..... 16

C_{21}-GROUP.

$C_{21}H_{22}O_4$. Derivative of benzalacetophenone. *Kohler*..... 386
$C_{21}H_{24}O_3$. Derivative of benzaldimethylcyclohexenone. *Kohler*.. 383

C_{24}-GROUP.

$C_{24}H_{18}$. *s*-Triphenylbenzene. *Kohler*..... 387
$C_{24}H_{20}$. Triphenyldihydrobenzene. *Kohler*..... 387

3 XXIV.

$C_{24}H_{19}ON_3$. Dianilino-*p*-quinoneanil. *Jackson* and *MacLaurin*.. 18

4 XXIV.

$C_{24}H_{18}ON_2Cl$. Dianilinochlor-*p*-quinoneanil. *Jackson* and *MacLaurin*..... 17
$C_{26}H_{18}O_2N_6Cl_2$. Aniline dianilinodichlor-*o*-benzoquinone. *Jackson* and *MacLaurin*..... 16

C_{32}-GROUP.

$C_{32}H_{28}O$. Tetraphenyltrimethylcyclohexanone. *Kohler*..... 378

ERRATA.

Vol. 35, page 94, line 16, for Tschelnizeff read Tschelinzeff.
" 35, " 94, " *4, for 38 read 37.
" 36, " 612, " 23, for was read were.